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Amendment to the Claims:

1. (Currently Amended) A computed tomography method which includes the steps of:

- a) generating[[,]] ~~while using a radiation source,~~ a conical radiation beam which traverses an examination zone or an object present therein,
- 5 b) ~~generating a circular relative motion, including a rotation rotating the conical radiation beam relative to the examination zone or the object about an axis of rotation[[,]] between the radiation source on the one side and the examination zone or the object on the other side,~~
- c) acquiring[[,]] ~~while using a detector unit,~~ measuring values
10 which are dependent on the intensity in the radiation beam ~~to~~ on the other side of the examination zone during the relative motion rotation,
- d) rebinning the measuring values so as to form a number of groups, each group containing the measuring values of fan beams which are situated in equidistant fan beam planes which extend parallel to one another and to the axis of
15 rotation and are composed of rays which traverse a plane which contains the axis of rotation and extends perpendicularly to the fan beam planes of this group in puncture points which are situated on equidistant connecting lines which extend perpendicularly to the axis of rotation and parallel to one another,
- e) reconstructing the ~~spatial distribution of the attenuation of the~~
20 ~~X-rays from the measuring data, formed by the rebinning of the measuring values, for~~
measuring values representing the fan beams of rays in the fan beam planes treating the measuring values as representing rays which extend parallel to each other and perpendicularly to the transverse plane[[s]] of the groups and through which the puncture points are defined so as to form at least one CT image.

2. (Previously Presented) A computed tomography method as claimed in claim 1, in which the reconstruction step comprises:

- a) one-dimensional filtering of the measuring data, formed by the rebinning operation, of each group in the direction of the connecting line,
- 5 b) backprojecting the filtered data of a plurality of groups.

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3. (Original) A computed tomography method as claimed in claim 1, in which the reconstruction step includes an inverse Fourier transformation.

4. (Previously Presented) The method claimed in claim 1 wherein continuous acquisition of measuring values for further CT images takes place while CT images are continuously being reconstructed.

5. (Currently Amended) A computed tomography apparatus, which apparatus includes:

- a) a radiation source for generating a conical radiation beam which traverses an examination zone or an object present therein,
- 5 b) a drive device for realizing a circular relative motion, including a rotation about an axis of rotation, between the radiation source ~~on the one side and the examination zone or the object on the other side,~~
- c) a detector unit for the acquisition of measuring values, during the relative motion, which measuring values are dependent on the intensity in the
10 radiation beam to the other side of the examination zone,
and also includes an image processing unit for generating at least one CT image from the measuring values by means of performing the steps of:
- d) rebinning the measuring values so as to form a number of groups, each group containing the measuring values of fan beams which are situated
15 in ~~equidistant~~ fan beam planes which extend parallel to one another and to the axis of rotation, ~~and are composed of rays which~~ of the fan beams traverse a plane which ~~contains the axis of rotation and extends perpendicular~~ to the fan beam planes of ~~this group in puncture points which are situated on equidistant connecting lines which extend perpendicularly to the axis of rotation and parallel to one another,~~
- 20 e) reconstructing the a spatial distribution of the attenuation of the X-rays radiation from the measuring data, ~~formed by the rebinning of the measuring values, for by treating the fan beam rays which extend perpendicularly to of the parallel fan beam planes of the groups and through the puncture points so as to form as parallel rays while reconstructing~~ at least one CT image.

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6. (Currently Amended) A computer readable media comprising a program for controlling a computed tomography apparatus to perform the steps of:[::]

5 a) ~~generating, while using~~ causing a radiation source[:,:] to generate a conical radiation beam which traverses an examination zone or an object present therein,

b) ~~generating a circular relative motion, including a rotation about an axis of rotation, between~~ causing rotation of the radiation source on the one side and relative to the examination zone or the object on the other side about an axis
10 of rotation,

c) ~~acquiring, while using~~ causing a detector unit[:,:] to acquire measuring values which are dependent on the intensity in the radiation beam to the ~~either an opposite~~ side of the examination zone from the radiation source during the relative motion,

15 d) rebinning the measuring values so as to form a number of groups, each group containing the measuring values, each group corresponding to ~~[[of]] fan beams which are situated in equidistant fan beam planes which extend parallel to one another, and to the axis of rotation and are composed of rays which~~ traverse the fan beam planes of each group being perpendicular to a group plane
20 which contains the axis of rotation and extends perpendicularly to the fan beam planes of this group in puncture points which are situated on equidistant connecting lines which extend perpendicularly to the axis of rotation and parallel to one another,

e) reconstructing the spatial distribution of the attenuation of the X-rays from the measuring data[:,:] ~~formed by the rebinning of the measuring values, for rays which extend~~ by treating the measuring data as representing rays extending
25 perpendicularly to the group plane[:,:] of the corresponding group[:,:] and through the puncture points so as to form at least one a continuously updated fluoroscopic CT image.